



STIC Search Report

EIC 3700

STIC Database Tracking Number: 201287

TO: Javier G Blanco
Location: RND 6d10
Art Unit: 3738
Friday, September 15, 2006

Case Serial Number: 10/606796

From: John Sims
Location: EIC 3700
RND 8B31

Search Notes

Attached: search results, strategies, and files searched for the above case.

9/3,K/1 (Item 1 from file: 340)
DIALOG(R) File 340: CLAIMS(R) /US Patent
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11185136 2006-0134170 2006-0029853

C/VISION ENHANCING OPHTHALMIC DEVICES AND RELATED METHODS AND COMPOSITIONS

Inventors: Asmanrafat Mehrdad (CA); Carlsson David J (CA); Griffith May (CA); Li Fengfu (CA); Liu Yuwen (US); Marmo J Christopher (US)

Assignee: Unassigned Or Assigned To Individual

Assignee Code: 68000

Attorney, Agent or Firm: STOUT, UXA, BUYAN & MULLINS LLP, 4 VENTURE, SUITE 300, IRVINE, CA, 92618, US

	Publication Number	Kind	Date	Application Number	Date
Priority Applic:	US 20060134170	A1	20060622	US 2005203685	20050812
Provisional Applic:				US 2005203685	20050812
				US 60-601270	20040813

Abstract: Devices, methods, and compositions for improving vision or treating diseases, disorders or injury of the eye are described. Ophthalmic devices, such as corneal onlays, **corneal** inlays, and full-thickness **corneal implants**, are made of a material that is effective in facilitating nerve growth through or over the device. The material may include an amount of **collagen** greater than 1% (w/w), such as between about 10% (w/w) and about 30% (w/ w). The material may include **collagen** polymers and/or a second biopolymer or water-soluble synthetic polymer cross-linked using EDC/NHS chemistry. The material may additionally comprise a synthetic polymer...

15/3,K/1 (Item 1 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
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0014730741 BIOSIS NO.: 200400101498

**Cellular and nerve regeneration within a biosynthetic extracellular matrix
for corneal transplantation.**

AUTHOR: Li Fengfu; Carlsson David; Lohmann Chris; Suuronen Erik; Vascotto Sandy; Kobuch Karin; Sheardown Heather; Munger Rejean; Nakamura Masatsugu ; Griffith May (Reprint)

AUTHOR ADDRESS: University of Ottawa Eye Institute, Ottawa, ON, K1H 8L6, Canada**Canada

AUTHOR E-MAIL ADDRESS: mgriffith@ohri.ca

JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 100 (26): p15346-15351 December 23, 2003

MEDIUM: print

ISSN: 0027-8424 (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: key properties of extracellular matrix (ECM) macromolecules can be replicated within tissue-engineered biosynthetic matrices to influence cellular properties and behavior. To achieve this, hydrated **collagen** and **N - isopropylacrylamide** copolymer-based ECMs were fabricated and tested on a corneal model. The structural and immunological simplicity of the cornea and importance of its extensive innervation...

...in transplantation. In vitro studies demonstrated that grafting of the laminin adhesion pentapeptide motif, YIGSR, to the hydrogels promoted epithelial stratification and neurite in-growth. **Implants** into pigs' **corneas** demonstrated successful in vivo regeneration of host corneal epithelium, stroma, and nerves. In particular, functional nerves were observed to rapidly regenerate in implants. By comparison...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ...hydrated **collagen** ;

15/3,K/2 (Item 1 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci
(c) 2006 The Thomson Corp. All rts. reserv.

12070965 Genuine Article#: 727JF No. References: 18

Title: Collagen -poly(N - isopropylacrylamide)-based membranes for corneal stroma scaffolds

Author(s): Shimmura S (REPRINT) ; Doillon CJ; Griffith M; Nakamura M; Gagnon E; Usui A; Shinozaki N; Tsubota K

Corporate Source: Tokyo Dent Coll,Dept Ophthalmol, Ichikawa Gen Hosp, Cornea Ctr,5-11-13 Sugano/Ichikawa/Chiba 2728513/Japan/ (REPRINT); Tokyo Dent Coll,Dept Ophthalmol, Ichikawa Gen Hosp, Cornea Ctr,Ichikawa/Chiba 2728513/Japan/; Univ Ottawa,Inst Eye,Ottawa/ON/Canada/; Santen Pharmaceut Co Ltd,Nara R&D Ctr,Ikoma/Nara/Japan/; Univ Laval,Ctr Med,Laval/PQ/Canada/

Journal: CORNEA, 2003, V22, N7,S (OCT), PS81-S88

ISSN: 0277-3740 Publication date: 20031000

Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: Collagen -poly(N - isopropylacrylamide)-based membranes for corneal stroma scaffolds

Abstract: Purpose:

To investigate the feasibility of using the biocompatibility of collagen-based blended biomaterials as cell-delivery systems in ocular surface reconstruction in vivo.

Methods:

Collagen-based composites that were blended with synthetic acrylamide-based polymers [poly(N - isopropylacrylamide), pNIPAAm] were transplanted into corneal pockets of white rabbits, with a 3-mm epithelial window. Epithelial cells were allowed to migrate onto the polymer. Transplanted...

...the vicinity of the polymer. Gold-chloride staining showed nerve regrowth in the wound edge after 1 month and subepithelial branches after 3 months.

Conclusion:

Collagen-pNIPAAm blended polymers may be effective as biomaterials to be used in the early stages of lamellar stromal replacement.

...Identifiers--ARTIFICIAL CORNEA; KERATOPROSTHESIS; FLUOROCARBON

13/7/2 (Item 2 from file: 340)
DIALOG(R) File 340: CLAIMS(R) /US Patent
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3071409 9839621 3910101

CM/METHODS FOR MAKING COMPOSITE HYDROGELS FOR CORNEAL PROSTHESES ;
POLYMERIZING OR CROSSLINKING SOLUTION TO BOND CORNEAL TISSUE TO
HYDROGEL

Document Type: UTILITY

Inventors: Merrill Edward W (US); Miller David (US); Perez Edward (US)

Assignee: Massachusetts Institute of Technology

Assignee Code: 52912

Publication Number	Kind Date	Application Number	Date
US 5836313	A 19981117	US 95422149	19950414
(Cited in 001 later patents)			
Continuation of:	Abandoned	US 9314812	19930208
Cont.-in-part of:		US 95384378	19950203
Priority Applic:		US 95422149	19950414
		US 9314812	19930208
		US 95384378	19950203

Calculated Expiration: 20151117

Abstract: Methods for forming implantable composite **keratoprostheses** are provided. The methods provide **keratoprostheses** designed to provide a suitable substrate for **corneal** epithelial cell growth while maintaining the desirable characteristics of hydrogels, i.e., clarity, flexibility and the ability to allow diffusive flow of nutrients. In a preferred embodiment the method includes placing **corneal** tissue in a mold having a **corneal implant** shape and crosslinking a polymeric solution to chemically bond a biocompatible hydrogel having a thickness between approximately 50 and 100 microns to the **corneal** tissue to form the **keratoprosthetic**. Upon implantation, the **corneal** tissue abuts epithelial cells surrounding the **keratoprosthetic**. In another preferred embodiment, a polymer solution is placed between the **corneal** tissue and a pre-formed hydrogel and then polymerized so that the polymer solution couples to both the hydrogel and the **corneal** tissue.

13/7/3 (Item 3 from file: 340)
DIALOG(R) File 340: CLAIMS(R) /US Patent
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1955178 8914133

C/INJECTIONABLE VISOELASTIC OPHTHALMIC GEL; PROTECTIVE COATING IN SURGICAL PROCEDURES

Document Type: REISSUE

Inventors: CHYLINSKI VICTORIA S (GB); TRAGER SEYMOUR F (US)

Assignee: UNASSIGNED OR ASSIGNED TO INDIVIDUAL

Assignee Code: 68000

	Publication Number	Kind	Date	Application Number	Date
Cont.-in-part of:	US RE32969	E1	19890627	US 87116579	19870824
Reissue of:	Abandoned			US 82434412	19821014
Priority Applic:	US 4540568		19850910	US 84625249	19840627
				US 87116579	19870824
				US 82434412	19821014
				US 84625249	19840627

CERTIFICATE OF CORRECTION: 19900424

Legal Status: EXPIRED EXTENDED REINSTATED

(See File 123 for legal status details)

Abstract: An improved injectionable viscoelastic gel for use in ophthalmic surgical and treatment procedures, wherein the gelling agent is a high molecular weight polyacrylamide or polymethacrylamide .

Exemplary Claim:

1. AN INJECTIONABLE VISCOELASTIC GEL PARTICULARLY ADAPTED FOR USE IN OPHTHALMIC SURGICAL PROCEDURES AND TREATMENTS (WHICH) , SAID GEL CONSISTING ESSENTIALLY OF FROM ABOUT 2 TO ABOUT 5 PERCENT BY WEIGHT OF A POLYMER SELECTED FROM POLYACRYLAMIDE AND POLYMETHACRYLAMIDE , SAID POLYMER HAVING A MOLECULAR WEIGHT OF FROM ABOUT 1 TO ABOUT 6 MILLION(;) , FROM ABOUT 0.4 TO ABOUT 8.6 PERCENT BY WEIGHT SODIUM CHLORIDE, FROM ABOUT 0.075 TO ABOUT 0.3 PERCENT BY WEIGHT (POSTASSIUM) POTASSIUM CHLORIDE, FROM ABOUT 0.04 TO ABOUT 0.33 PERCENT BY WEIGHT CALCIUM CHLORIDE, FROM ABOUT 0.02 TO ABOUT 0.04 PERCENT BY WEIGHT MAGNESIUM CHLORIDE HEXAHYDRATE, FROM ABOUT 0.3 TO ABOUT 0.4 PERCENT BY WEIGHT SODIUM ACETATE, FROM ABOUT 0.15 TO ABOUT 0.20 PERCENT BY WEIGHT OF A BUFFER, REMAINDER WATER.

13/7/6 (Item 3 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2006 The Thomson Corporation. All rts. reserv.

0009147761
WPI ACC NO: 1999-069293/199906
XRAM Acc No: C1999-020299
XRPX Acc No: N1999-050734

Manufacture of an implantable composite keratoprosthesis - placing corneal tissue in a mould, placing biocompatible hydrogel in contact with corneal tissue and polymerising a polymeric solution to chemically bond the hydrogel to the corneal tissue

Patent Assignee: MASSACHUSETTS INST TECHNOLOGY (MASI)

Inventor: MERRILL E W; MILLER D; PEREZ E

Patent Family (1 patents, 1 countries)

Patent Number	Application				
	Kind	Date	Number	Kind	Date
US 5836313	A	19981117	US 199314812	A	19930208
			WO 1994US1419	A	19940209
			US 1995384378	A	19950203
			US 1995422149	A	19950414

Priority Applications (no., kind, date): US 1995384378 A 19950203; WO 1994US1419 A 19940209; US 199314812 A 19930208; US 1995422149 A 19950414

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5836313	A	EN	13	2	Continuation of application US 199314812
1994US1419					Continuation of application WO 1994US1419
					C-I-P of application US 1995384378

Alerting Abstract US A
Manufacture of an implantable composite keratoprosthesis comprises (1) (a) placing corneal tissue in a mould having a corneal implant shape; (b) placing a biocompatible hydrogel of thickness 50-100 μm in contact with the corneal tissue; (c) placing a polymerisable polymeric solution between the corneal tissue and hydrogel; and (d) polymerizing the polymeric solution to chemically bond the hydrogel to the corneal tissue to form a keratoprosthesis, such that, on implantation the corneal tissue abuts epithelial cells surrounding the keratoprosthesis; or (2) (a) forming the hydrogel (thickness 50-100 μm) into a shape suitable for a corneal implant; (b) providing the corneal tissue (thickness 10-50 μm) in close proximity to the hydrogel; (c) providing a liquid polymer solution between the hydrogel and the corneal tissue; and (d) adhering the corneal tissue to the hydrogel by polymerizing the polymer solution.

USE - The materials are used for the construction of an artificial cornea or epikeratoprostheses, as synthetic lenticules or epikeratophakic grafts.

ADVANTAGE - The processes provide a suitable substrate for corneal epithelial cell growth while maintaining the desirable characteristics of hydrogels, i.e. clarity, flexibility and the ability to allow diffusive flow of nutrients. The keratoprostheses are enzymatically stable and have longer lifetimes, result in less tissue death, secondary infection and

peri- **implant** membrane formation, following implantation, than currently available **keratoprostheses** .

Title Terms/Index Terms/Additional Words: MANUFACTURE; **IMPLANT** ; COMPOSITE ; PLACE; **CORNEA** ; TISSUE; MOULD; BIOCOMPATIBLE; HYDROGEL; CONTACT; POLYMERISE; SOLUTION; CHEMICAL; BOND

13/7/7 (Item 4 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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0006887108
WPI ACC NO: 1994-279409/
XRAM Acc No: C1994-127492
XRPX Acc No: N1994-220147

Implantable composite kerato prosthesis , used as improved hydrogel material - comprises biocompatible polyvinyl alcohol hydrogel bonded to collagen material layer e.g. collagen type I, for ocular materials

Patent Assignee: MASSACHUSETTS INST TECHNOLOGY (MASI)

Inventor: MERRILL E W; MILLER D; PEREZ E

Patent Family (1 patents, 19 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
WO 1994017851	A1	19940818	WO 1994US1419	A	19940208	199434 B

Priority Applications (no., kind, date): US 199314812 A 19930208

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1994017851	A1	EN	42	3	

National Designated States,Original: CA JP US

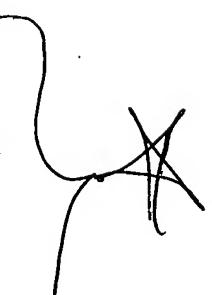
Regional Designated States,Original: AT BE CH DE DK ES FR GB GR IE IT LU
MC NL PT SE

Alerting Abstract WO A1

The prosthesis comprises a biocompatible hydrogel bonded to a layer of a collagen material of collagen type I and corneal tissue. The hydrogel-collagen material is in the shape of a corneal implant having the collagen material on the surface where it will abut the epithelial cells surrounding the implant . Also claimed is a method for mfg. the composite comprising forming the composite by bonding a biocompatible hydrogel to a layer of a collagen material as described above.

The hydrogel is pref. 2-60 wt.% per vol. of gel and has an index of refraction optically equiv. to water and able to support a breaking tensile stress of 40,000 - 60,000 dynes/cm². The hydrogel is 50-100 microns thick and the collagen material is 10-50 microns thick. The hydrogel is of polyethylene oxide, PVA, polydioxolane, hydroethylmethacrylate, poly(acylic acid), poly (acrylamide), and poly(N-vinyl pyrrolidone). The hydrogel is polymerised and bound to the collagen material by electron irradiation induced crosslinking.

USE/ADVANTAGE - The composite is used in ocular materials and in partic. improved hydrogel material for engineering of corneal surfaces. Provides keratoprosthesis with longer lifetimes and results in less tissue death, sec. infection and pen- implant membrane formation, and providing a method for mfg. and using a material with desirable optical properties including clarity, providing an optimal epithelial cell substrate, tissue-type flexibility, and permeability to solutes, which is compatible in living systems and enzymatically stable.



14/3/16 (Item 9 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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0014063039

WPI ACC NO: 2004-245887/200423

Related WPI Acc No: 2005-038457

XRAM Acc No: C2004-096248

XRXPX Acc No: N2004-194915

Preparation of implantable devices for sustained delivery of chemical substances in humans or animals, comprises dissolving biocompatible polymers in a solvent solution to produce polymer-solvent solution

Patent Assignee: UNIV CALIFORNIA (REGC)

Inventor: HSU H T; PONTES DE-CARVALHO R A; WONG C G

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 6692759	B1	20040217	US 2000215731	P	20000628	200423 B
			US 2001894914	A	20010628	

Priority Applications (no., kind, date): US 2000215731 P 20000628; US 2001894914 A 20010628

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6692759	B1	EN	10	2	Related to Provisional US 20002157

14/3/18 (Item 11 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0012925138 - Drawing available

WPI ACC NO: 2003-001543/

XRAM Acc No: C2003-000657

XRPX Acc No: N2003-001054

Process for coating surface of biomedical articles such as contact lenses, involves applying preset comb-type polymers to material surface and fixing polymer(s) onto material surface using heat or radiation

Patent Assignee: CHABRECEK P (CHAB-I); LEUKEL J (LEUK-I); LOHMANN D (LOHM-I); NOVARTIS AG (NOVS); NOVARTIS-ERFINDUNGEN VERW GES MBH (NOVS)

Inventor: CHABRECEK P; LEUKEL J; LOHMANN D

Patent Family (4 patents, 28 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
EP 1227120	A2	20020731	EP 2001664	A	20011127	200301 B
US 20020172831	A1	20021121	US 200256168	A	20020124	200301 E
JP 2002348393	A	20021204	JP 200212806	A	20020122	200310 E
US 6730366	B2	20040504	US 200256168	A	20020124	200430 E

Priority Applications (no., kind, date): EP 2001810061 A 20010124

Patent Details

Number Kind Lan Pg Dwg Filing Notes

EP 1227120 A2 EN 35 0

Regional Designated States, Original: AL AT BE CH CY DE DK ES FI FR GB GR

IE IT LI LT LU LV MC MK NL PT RO SE SI TR

JP 2002348393 A JA 28

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Set	Items	Description
S1	170100	CORNEA? OR EYE? ?
S2	185350	IMPLANT?? OR PROSTHES? OR PROSTHET?
S3	4440	S1(S)S2
S4	33336	POLYACRYLAMIDE? OR POLY()ACRYLAMIDE? OR N()ISOPROPYLACRYLA-MIDE?
S5	38	S3 AND S4
S6	452	HYDRAT?? (5N)MEMBRAN?
S7	444	HYDRAT?? (5N)MEMBRANE? ?
S8	6999	KERATO?
S9	1057	S8 (5N) (S1 OR S2)
S10	7	S4 AND S9
S11	210	S3 AND S8
S12	3	S11 AND S4
S13	7	S10 OR S12
S14	35	S5 NOT S13
S15	546900	LENS??
S16	682894	S1 OR S15
S17	6409	S2(S)S16
S18	26	S17(S)S4
S19	1	S17(S)S7
S20	27	S18 OR S19
S21	10	S20 NOT S5

File 340:CLAIMS(R)/US Patent 1950-06/Sep 12
(c) 2006 IFI/CLAIMS(R)

File 342:Derwent Patents Citation Indx 1978-05/200655
(c) 2006 The Thomson Corp.

File 344:Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office

File 347:JAPIO Dec 1976-2005/Dec (Updated 060404)
(c) 2006 JPO & JAPIO

File 350:Derwent WPIX 1963-2006/UD=200658
(c) 2006 The Thomson Corporation

File 371:French Patents 1961-2002/BOPI 200209

? ds;show files

Set	Items	Description
S1	1101490	CORNEA?? OR EYE? OR KERATO?
S2	1064709	LENS?? OR IMPLANT?? OR PROSTHES? OR PROSTHET?
S3	76234	S1(10N) S2
S4	1573	HYDRAT??(5N) MEMBRANE??
S5	254335	POLYACRYLAMIDE? OR POLY()ACRYLAMIDE? OR ISOPROPYLACRYLAMID-E?
S6	0	S3(S)S4
S7	114	S3(S)S5
S8	68	RD (unique items)
S9	8	S8/2003-2006
S10	60	S8 NOT S9
File	2:INSPEC 1898-2006/Sep W1	
	(c) 2006 Institution of Electrical Engineers.	
File	5:Biosis Previews(R) 1969-2006/Sep W2	
	(c) 2006 The Thomson Corporation	
File	6:NTIS 1964-2006/Sep W1	
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File	8:Ei Compendex(R) 1970-2006/Sep W1	
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File	34:SciSearch(R) Cited Ref Sci 1990-2006/Sep W1	
	(c) 2006 The Thomson Corp	
File	35:Dissertation Abs Online 1861-2006/Aug	
	(c) 2006 ProQuest Info&Learning	
File	65:Inside Conferences 1993-2006/Sep 13	
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File	94:JICST-EPlus 1985-2006/Jun W1	
	(c) 2006 Japan Science and Tech Corp(JST)	
File	144:Pascal 1973-2006/Aug W3	
	(c) 2006 INIST/CNRS	
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	
	(c) 2006 The Thomson Corp	
File	441:ESPICOM Pharm&Med DEVICE NEWS 2006/Mar W4	
	(c) 2006 ESPICOM Bus.Intell.	

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Set	Items	Description
S1	4194	KERATO?
S2	1561	CORNEA?(5N) (IMPLANT?? OR LENS?? OR PROSTHES? OR PROSTHET?)
S3	5578	S1 OR S2
S4	2177272	MEMBRANE? ? OR LAYER? ? OR FILM? ?
S5	66445	BIOLOGIC??(3N) POLYMER? ? OR COLLAGEN? OR FIBRIN? OR GELATI- N? OR ELASTIN? OR (TELO OR ATELO) ()COLLAGEN?
S6	996	(POLY OR N) ()ISOPROPYLACRYLAMIDE? OR ISOPROPYL()ACRYLAMIDE? OR ISOPROPYLACRYLAMIDE?
S7	201	S3 AND S4 AND S5:S6
S8	122	S5 AND S6
S9	4	S3 AND S8

File 350:Derwent WPIX 1963-2006/UD=200658

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Set	Items	Description
S1	2809	KERATO?
S2	1555	CORNEA?(5N) (IMPLANT?? OR LENS?? OR PROSTHES? OR PROSTHET?)
S3	4250	S1 OR S2
S4	2614634	MEMBRANE? ? OR LAYER? ? OR FILM? ?
S5	57097	BIOLOGIC??(3N) POLYMER? ? OR COLLAGEN? OR FIBRIN? OR GELATI- N? OR ELASTIN? OR (TELO OR ATELO) ()COLLAGEN?
S6	815	(POLY OR N) ()ISOPROPYLACRYLAMIDE? OR ISOPROPYL()ACRYLAMIDE? OR ISOPROPYLACRYLAMIDE?
S7	121	S3 AND S4 AND S5:S6
S8	101	S5 AND S6
S9	2	S3 AND S8

File 340:CLAIMS(R)/US Patent 1950-06/Sep 14
(c) 2006 IFI/CLAIMS(R)

File 342:Derwent Patents Citation Indx 1978-05/200656
(c)2006 The Thomson Corp.

File 344:Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office

File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)
(c) 2006 JPO & JAPIO

File 371:French Patents 1961-2002/BOPI 200209
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Set	Items	Description
S1	137001	KERATO?
S2	22370	CORNEA?(5N) (IMPLANT?? OR LENS?? OR PROSTHES? OR PROSTHET?)
S3	153721	S1 OR S2
S4	8532014	MEMBRANE? ? OR LAYER? ? OR FILM? ?
S5	1085253	BIOLOGIC??(3N) POLYMER? ? OR COLLAGEN? OR FIBRIN? OR GELATI-N? OR ELASTIN? OR (TELO OR ATELO) ()COLLAGEN?
S6	12261	(POLY OR N) ()ISOPROPYLACRYLAMIDE? OR ISOPROPYL()ACRYLAMIDE? OR ISOPROPYLACRYLAMIDE?
S7	2201	S3 AND S4 AND S5:S6
S8	359	S5 AND S6
S9	9	S3 AND S8
S10	2	TELOCOLLAGEN?
S11	1047	ATELOCOLLAGEN?
S12	1049	S10:S11
S13	0	S6 AND S12
S14	9	S9
S15	3	RD (unique items)
File	2:INSPEC 1898-2006/Sep W1	
	(c) 2006 Institution of Electrical Engineers	
File	5:Biosis Previews(R) 1969-2006/Sep W2	
	(c) 2006 The Thomson Corporation	
File	6:NTIS 1964-2006/Sep W1	
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File	8:Ei Compendex(R) 1970-2006/Sep W1	
	(c) 2006 Elsevier Eng. Info. Inc.	
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	(c) 2006 The Thomson Corp	
File	35:Dissertation Abs Online 1861-2006/Aug	
	(c) 2006 ProQuest Info&Learning	
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	(c) 2006 BLDSC all rts. reserv.	
File	73:EMBASE 1974-2006/Sep 15	
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File	94:JICST-EPlus 1985-2006/Jun W2	
	(c) 2006 Japan Science and Tech Corp(JST)	
File	98:General Sci Abs 1984-2006/Sep	
	(c) 2006 The HW Wilson Co.	
File	99:Wilson Appl. Sci & Tech Abs 1983-2006/Jul	
	(c) 2006 The HW Wilson Co.	
File	144:Pascal 1973-2006/Aug W3	
	(c) 2006 INIST/CNRS	
File	155:MEDLINE(R) 1950-2006/Sep 14	
	(c) format only 2006 Dialog	
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	
	(c) 2006 The Thomson Corp	
File	441:ESPICOM Pharm&Med DEVICE NEWS 2006/Mar W4	
	(c) 2006 ESPICOM Bus.Intell.	

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S4	33336	POLYACRYLAMIDE? OR POLY()ACRYLAMIDE? OR N()ISOPROPYLACRYLA-MIDE?
S5	38	S3 AND S4
S6	452	HYDRAT??(5N)MEMBRAN?
S7	444	HYDRAT??(5N)MEMBRANE? ?
S8	6999	KERATO?
S9	1057	S8(5N)(S1 OR S2)
S10	7	S4 AND S9
S11	210	S3 AND S8
S12	3	S11 AND S4
S13	7	S10 OR S12
S14	35	S5 NOT S13
S15	546900	LENS??
S16	682894	S1 OR S15
S17	6409	S2(S)S16
S18	26	S17(S)S4
S19	1	S17(S)S7
S20	27	S18 OR S19
S21	.10	S20 NOT S5

File 340:CLAIMS(R)/US Patent 1950-06/Sep 12
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File 342:Derwent Patents Citation Indx 1978-05/200655
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File 344:Chinese Patents Abs Jan 1985-2006/Jan
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File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)
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File 350:Derwent WPIX 1963-2006/UD=200658
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File 371:French Patents 1961-2002/BOPI 200209
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Set	Items	Description
S1	1101490	CORNEA?? OR EYE? OR KERATO?
S2	1064709	LENS?? OR IMPLANT?? OR PROSTHES? OR PROSTHET?
S3	76234	S1(10N)S2
S4	1573	HYDRAT??(5N)MEMBRANE??
S5	254335	POLYACRYLAMIDE? OR POLY()ACRYLAMIDE? OR ISOPROPYLACRYLAMID-E?
S6	0	S3(S)S4
S7	114	S3(S)S5
S8	68	RD (unique items)
S9	8	S8/2003-2006
S10	60	S8 NOT S9
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File	144:Pascal	1973-2006/Aug W3 (c) 2006 INIST/CNRS
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